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1 Deferred incremental refresh of XML materialized views: algorithms and performance evaluation

Hyunchul Kang, Hosang Sung, ChanHo Moon

January 2003 **ADC '03: Proceedings of the 14th Australasian database Volume 17**, Volume 17

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (475.08 KB) Additional Information: full citation, abstract, reference terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 19, Citation

The view mechanism can provide the user with an appropriate portion of data through data filtering and integration. Views are often materialized for cost performance improvement, and in that case, their consistency needs to be maintained against ...

Keywords: XML, deferred incremental view refresh, materialized view, data

2 Mobile agent-based services for view materialization

Kyriakos Karenos, George Samaras, Panos K. Chrysanthis, Evangelia Pliou

July 2004 **SIGMOBILE Mobile Computing and Communications Review**

Publisher: ACM

Full text available: Pdf (537.45 KB) Additional Information: full citation, abstract, reference terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 45, Citation

Mobile agents are ideal for mobile computing environments because of their support asynchronous communication and disconnected data processing. In this paper, we present a prototype set of extensible mobile-agent based services that

3 Compiling mappings to bridge applications and databases

Sergey Melnik, Atul Adya, Philip A. Bernstein

November 2008 **Transactions on Database Systems (TODS)**, Volume 33

Publisher: ACM Request Permissions

Full text available: Pdf (1.40 MB) Additional Information: full citation, abstract, reference terms

Bibliometrics: Downloads (6 Weeks): 69, Downloads (12 Months): 409, Citation

Translating data and data access operations between applications and databases is a longstanding data management problem. We present a novel approach in which the relationship between the application data and the persistent

Keywords: Mapping, query rewriting, updateable views

**A software engineering perspective on algorithmics**

Karsien Weihe

March 2001 **Computing Surveys (CSUR)** . Volume 33 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: Pdf (1.62 MB) **Additional Information:** [full citation](#), [abstract](#), [referer review](#)**Bibliometrics:** Downloads (6 Weeks): 54, Downloads (12 Months): 237, Citations

An algorithm component is an implementation of an algorithm which is be a stand-alone module, but to perform a specific task within a large s or even within several distinct software packages. Therefore, ...

Keywords: algorithm engineering**5 Maintenance of K-nn and spatial join queries on continuously moving**

Glenn S. Iwerks, Hanan Samet, Kenneth P. Smith

June 2006 **Transactions on Database Systems (TODS)** . Volume 31 Issue 2**Publisher:** ACM [Request Permissions](#)Full text available: Pdf (2.49 MB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 119, Citations

Cars, aircraft, mobile cell phones, ships, tanks, and mobile robots all have the property that they are moving objects. A kinematic representation can then describe the location of these objects as a function of time. For example

Keywords: k-nearest neighbor, Moving object databases, continuously materialized view maintenance, spatial join, temporal databases**6 Robust approximate aggregation in sensor data management system**

Jeffrey Considine, Marios Hadjieleftheriou, Felfel Lj, John Byers, George Kollias

April 2009 **Transactions on Database Systems (TODS)** . Volume 34 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: Pdf (694.94 KB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)**Bibliometrics:** Downloads (6 Weeks): 47, Downloads (12 Months): 80, Citations

In the emerging area of sensor-based systems, a significant challenge is to extract useful information from the collected data. An approach to this data management problem is the use of sensor

Keywords: Sensor databases, aggregation, approximation algorithms, synopsis**7 Probabilistic top-k and ranking-aggregate queries**

Mohamed A. Soliman, Ihab F. Ilyas, Kevin Chen, Chuan Cheng

August 2008 **Transactions on Database Systems (TODS)** . Volume 33 Issue 2**Publisher:** ACM [Request Permissions](#)Full text available: Pdf (1.35 MB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 348, Citations

Ranking and aggregation queries are widely used in data exploration, data analysis, and decision-making scenarios. While most of the currently proposed ranking aggregation techniques focus on deterministic data, several emerging applications involve ...

Keywords: Query processing, aggregation, probabilistic data, ranking,

8 Efficient gathering of correlated data in sensor networks

 Himanshu Gupta, Vishnu Navda, Samir Das, Vishal Chowdhary
January 2008 **Transactions on Sensor Networks (TOSN)**, Volume 4 Issue 1

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (488.21 KB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 472, Citati

In this article, we design techniques that exploit data correlations in ser
minimize communication costs (and hence, energy costs) incurred durin
in a sensor network. Our proposed approach is to select a small subset

Keywords: Correlated Data, Energy Efficiency, Topology Control

9 Rank-aware query optimization

 Inhab F. Ilyas, Rahul Shah, Walid G. Aref, Jeffrey Scott Vitter, Ahmed K. Elj
June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD internatio**
Management of data


Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (281.93 KB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 107, Citati

Ranking is an important property that needs to be fully supported by cu
query engines. Recently, several rank-join query operators have been p
rank aggregation algorithms. Rank-join operators progressively rank th

10 Relaxed-currency serializability for middle-tier caching and replicatio

 Philip A. Bernstein, Alan Fekete, Hongfei Guo, Raghu Ramakrishnan, Prade
June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD internatio**
Management of data

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (418.33 KB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)
[terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 127, Citati

Many applications, such as e-commerce, routinely use copies of data th
with the database due to heuristic caching strategies used to enhance p
study concurrency control for a transactional model that allows update t

Keywords: caching, database, freshness constraint, replication, serializ
transaction

11 Efficient gathering of correlated data in sensor networks

 Himanshu Gupta, Vishnu Navda, Samir Das, Vishal Chowdhary
May 2005 **MobiHoc '05: Proceedings of the 6th ACM international symposi**
hoc networking and computing

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (299.31 KB) **Additional Information:** [full citation](#), [abstract](#), [referer](#)


Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 111, Citati

In this paper, we design techniques that exploit data correlations in sen

minimize communication costs (and hence, energy costs) incurred during in a sensor network. Our proposed approach is to select a small subset

Keywords: correlated data, energy efficiency, topology control

12 [Hashconsing in an incrementally garbage-collected system: a story of](#)
[and hashconsing in ocaml 3.10.2](#)

 Pascal Cuoq, Damien Deligé

September 2008 **ML '08: Proceedings of the 2008 ACM SIGPLAN workshop**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (271.30 KB) **Additional Information:** [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 85, Citation

This article describes the implementations of weak pointers, weak hash
hashconsing in version 3.10.2 of the Objective Caml system, with focus
performance pitfalls and their solutions.

Keywords: garbage collection, hash-consing, maximal sharing, ocaml,
weak pointers, weak references

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